

FIG. 1

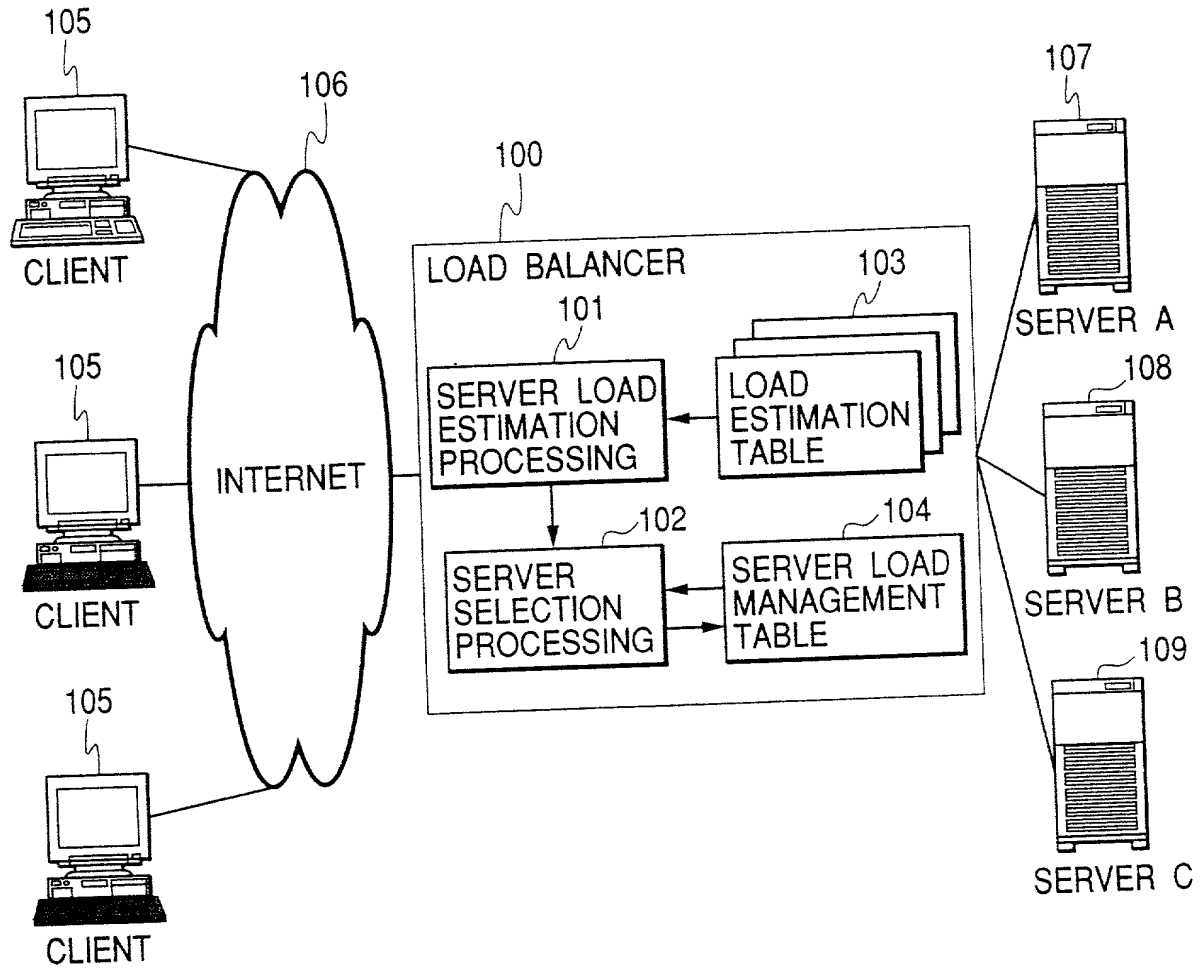


FIG. 2

201
GET <http://www.sdl.hitachi.co.jp/index.html> HTTP/1.0
User-agent: Mozilla/3.0
Accept: text/html, image/gif, image/jpeg

202

FIG. 3

METHOD LOAD EVALUATION TABLE

METHOD	LOAD EVALUATION VALUE L1		
	SERVER A (L1A)	SERVER B (L1B)	SERVER C (L1C)
GET	6	4	2
HEAD	3	2	1
POST	9	6	3
PUT	6	4	2
DELETE	9	6	3
TRACE	3	2	1
OPTIONS	3	2	1

FIG. 4

CONTENTS DATA TABLE

CONTENTS	SIZE (BYTES)	PROBABILITY THAT IT WILL BE IN THE CLIENT-SIDE CACHE (%)
a.htm1	10	90
b.htm1	31	90
c.htm1	599	70
----	----	----
a.gif	25	50
b.gif	4	30
c.xls	1,008	5
d.pdf	19,283	5
----	----	----

FIG. 5

DATA SIZE LOAD EVALUATION TABLE

SIZE (BYTES)	LOAD EVALUATION VALUE L2		
	SERVER A (L2A)	SERVER B (L2B)	SERVER C (L2C)
1~50	3	2	1
50~100	6	4	2
100~200	9	6	3
----	----	----	----

FIG. 6DYNAMIC CONTENTS GENERATION PROGRAM
LOAD EVALUATION TABLE

PROGRAM	LOAD EVALUATION VALUE L3			AVERAGE DATA SIZE (BYTES)
	SERVER A (L3A)	SERVER B (L3B)	SERVER C (L3C)	
SEARCH1			20	500
SEARCH2			10	876
CALC1			1	72

FIG. 7

WEIGHT TABLE

LOAD EVALUATION VALUE L	WEIGHT W
L1	w1
L2	w2
L3	w3

FIG. 8

SERVER LOAD MANAGEMENT TABLE

SERVER	LOAD STATUS
A	
B	
C	

FIG. 9

〈SERVER LOAD ESTIMATION PROCESSING〉

101

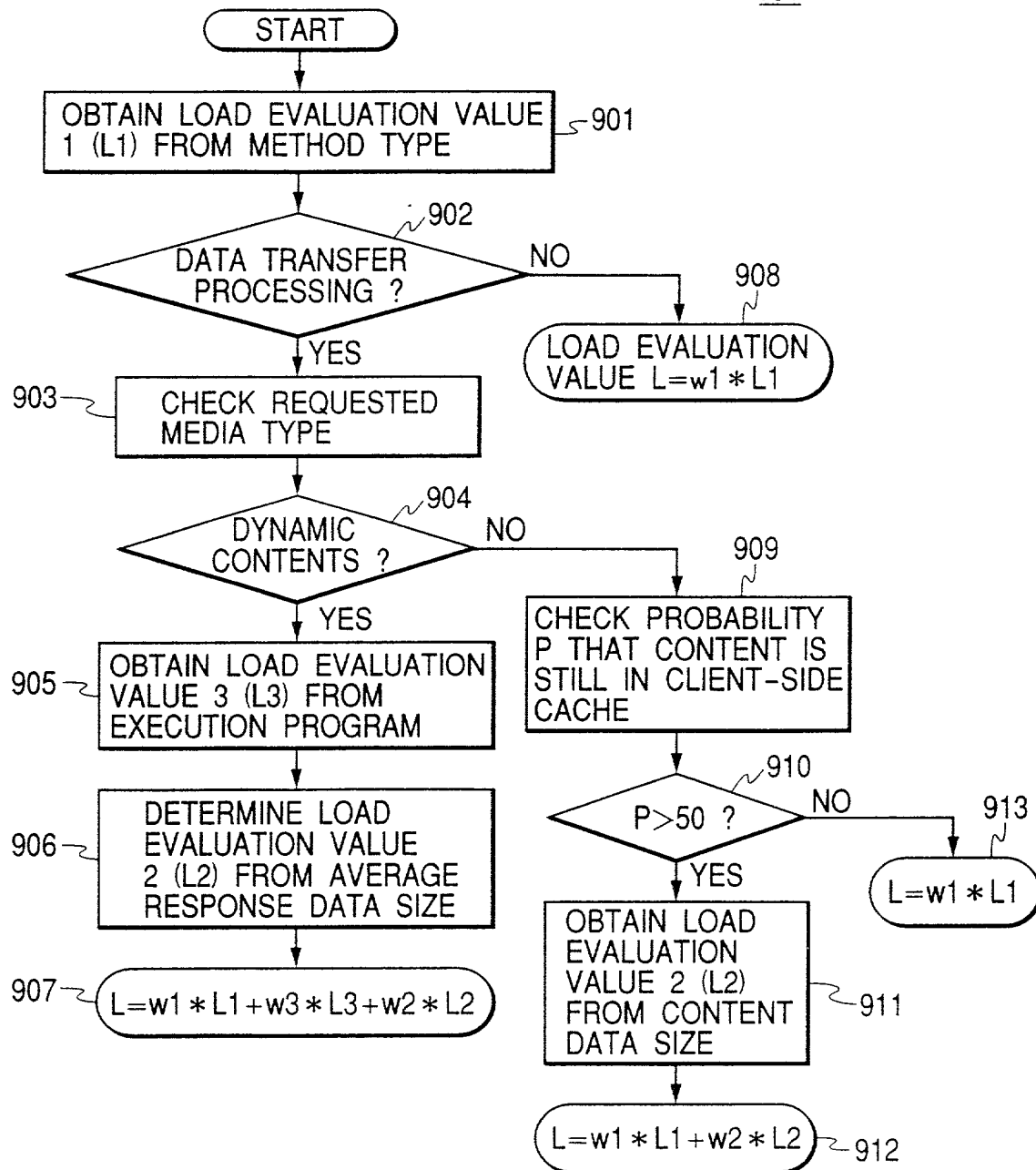


FIG. 10 <SERVER SELECTION PROCESSING> 102

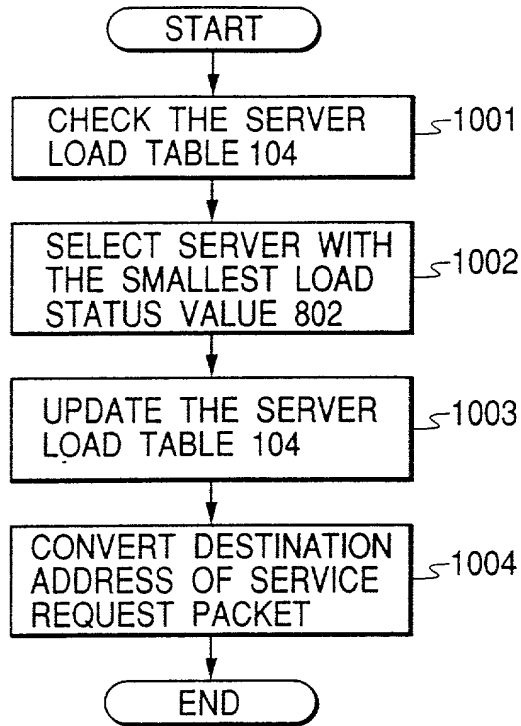


FIG. 11

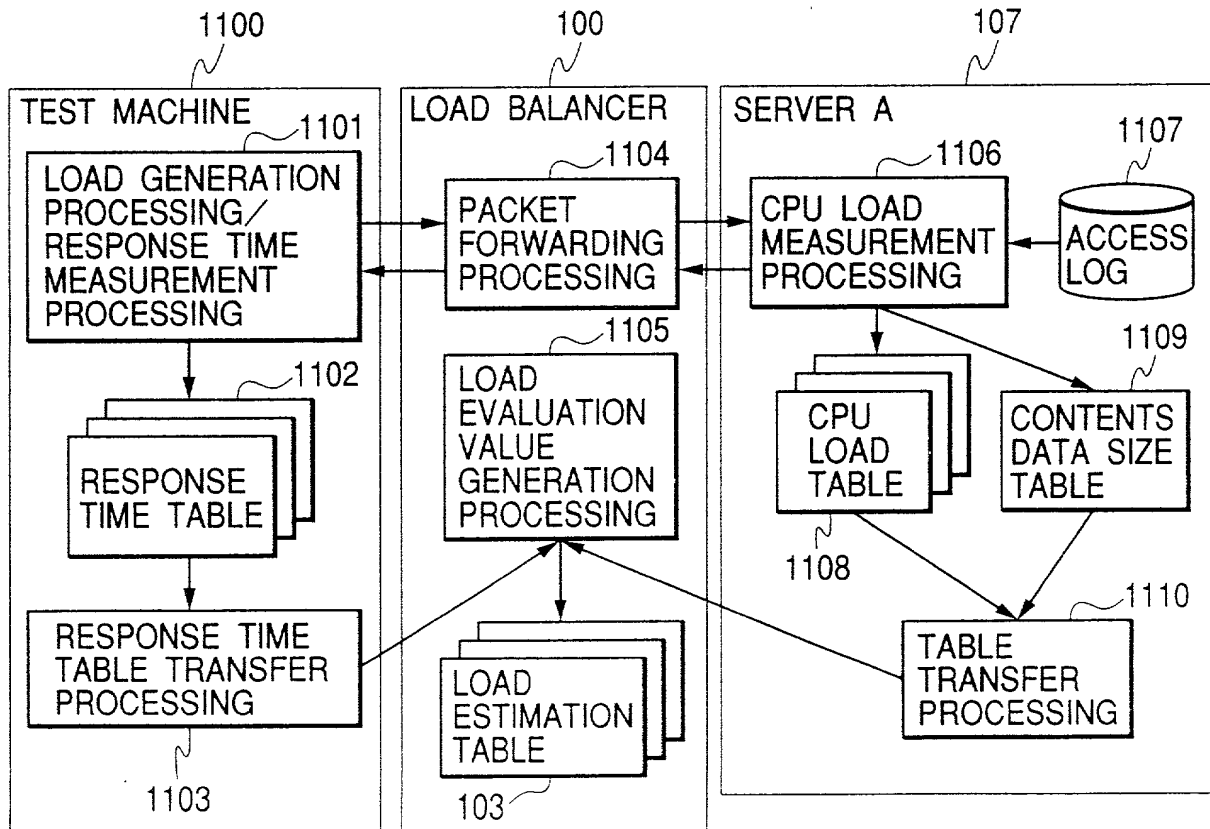


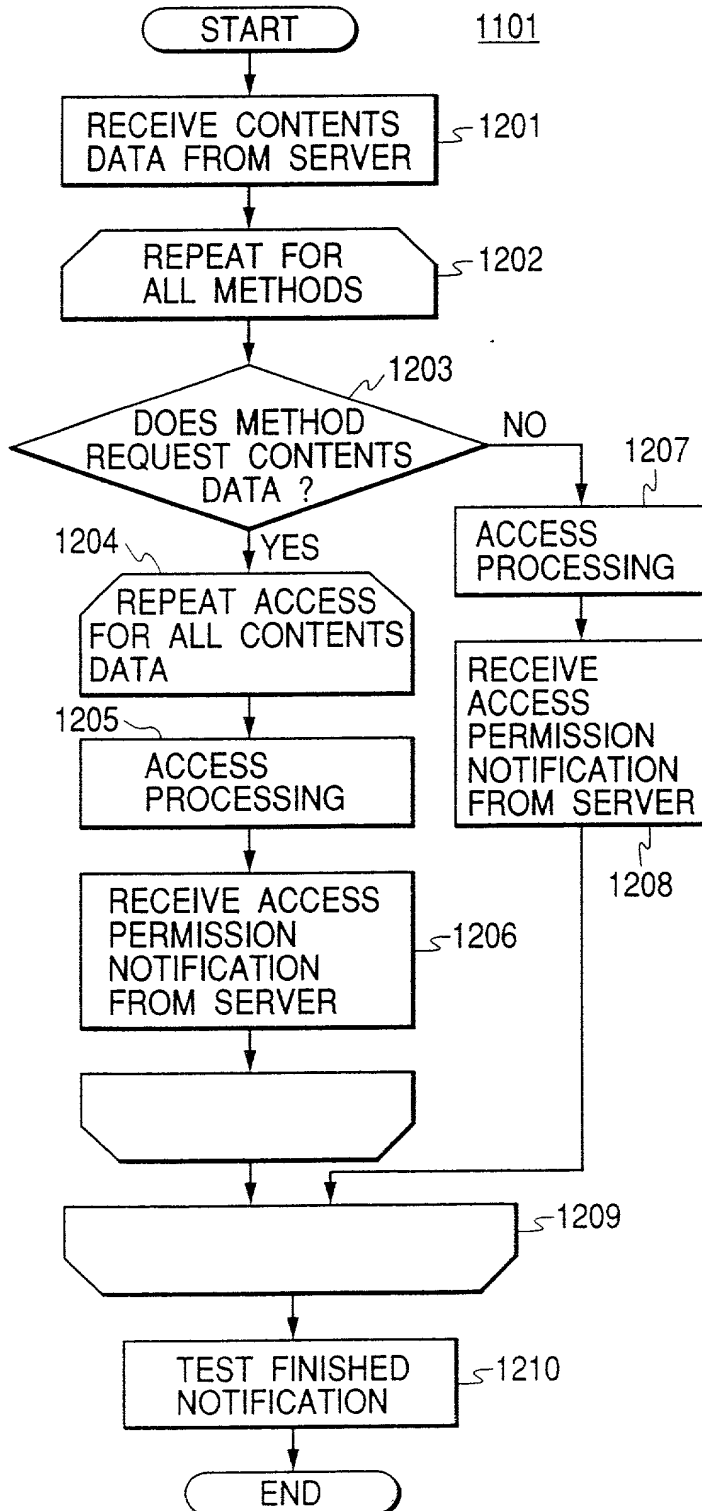
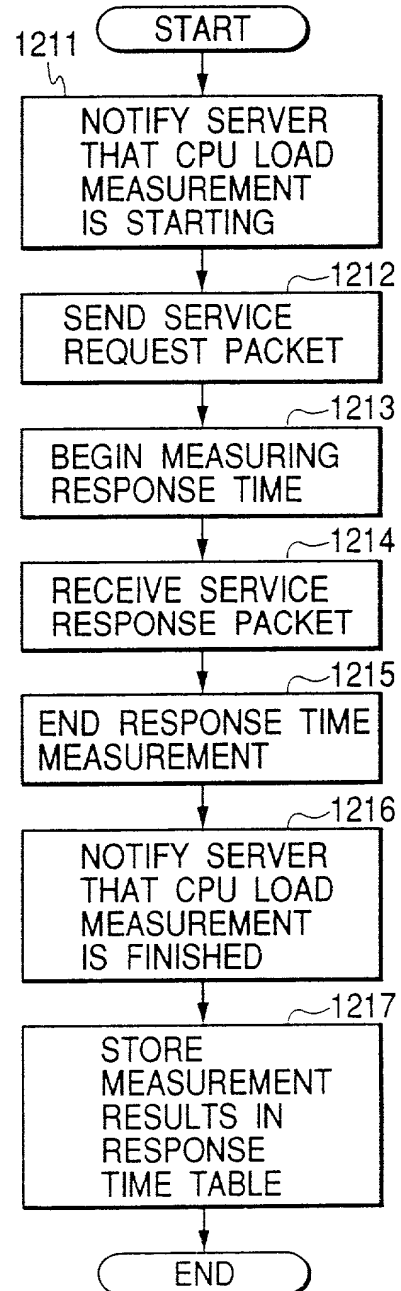
FIG. 12A(LOAD GENERATION PROCESSING/
RESPONSE TIME MEASUREMENT PROCESSING)**FIG. 12B**ACCESS PROCESSING
1205, 1207

FIG. 13

〈CPU LOAD MEASUREMENT PROCESSING〉

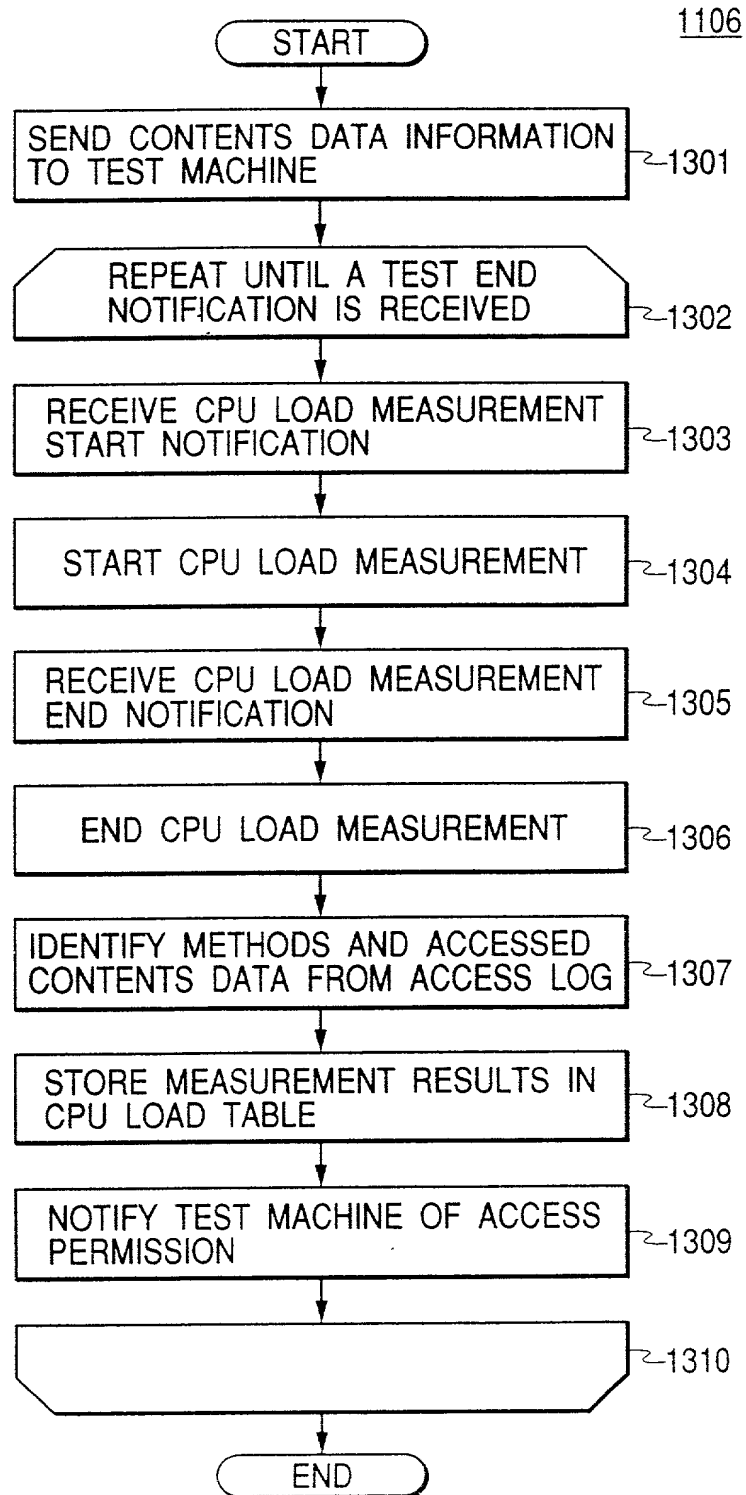


FIG. 14RESPONSE TIME TABLE
(METHOD TABLE)

1401 METHOD	1402 RESPONSE TIME
GET	
HEAD	
POST	
PUT	
DELETE	
TRACE	
OPTIONS	

FIG. 15RESPONSE TIME TABLE
(METHOD TABLE)

1501 METHOD	1502 RESPONSE TIME
a.html	
b.html	
c.html	

a.gif	
b.gif	
c.xls	
d.pdf	

FIG. 16RESPONSE TIME TABLE
(DYNAMIC CONTENTS GENERATION PROGRAM TABLE)

1601 PROGRAM	1602 RESPONSE TIME
SEARCH1	
SEARCH2	
CALC1	

FIG. 17CPU LOAD TABLE
(METHOD TABLE)

1701 METHOD	1702 CPU LOAD	1700
GET		
HEAD		
POST		
PUT		
DELETE		
TRACE		
OPTIONS		

FIG. 18CPU LOAD TABLE
(DYNAMIC CONTENTS GENERATION PROGRAM TABLE)

1801 PROGRAM	1802 CPU LOAD	1803 AVERAGE DATA SIZE	1800
SEARCH1			
SEARCH2			
CALC1			

FIG. 19

CONTENTS DATA SIZE TABLE

1901 CONTENTS	1902 DATA SIZE	1109
a.html		
b.html		
c.html		

a.gif		
b.gif		
c.xls		
d.pdf		

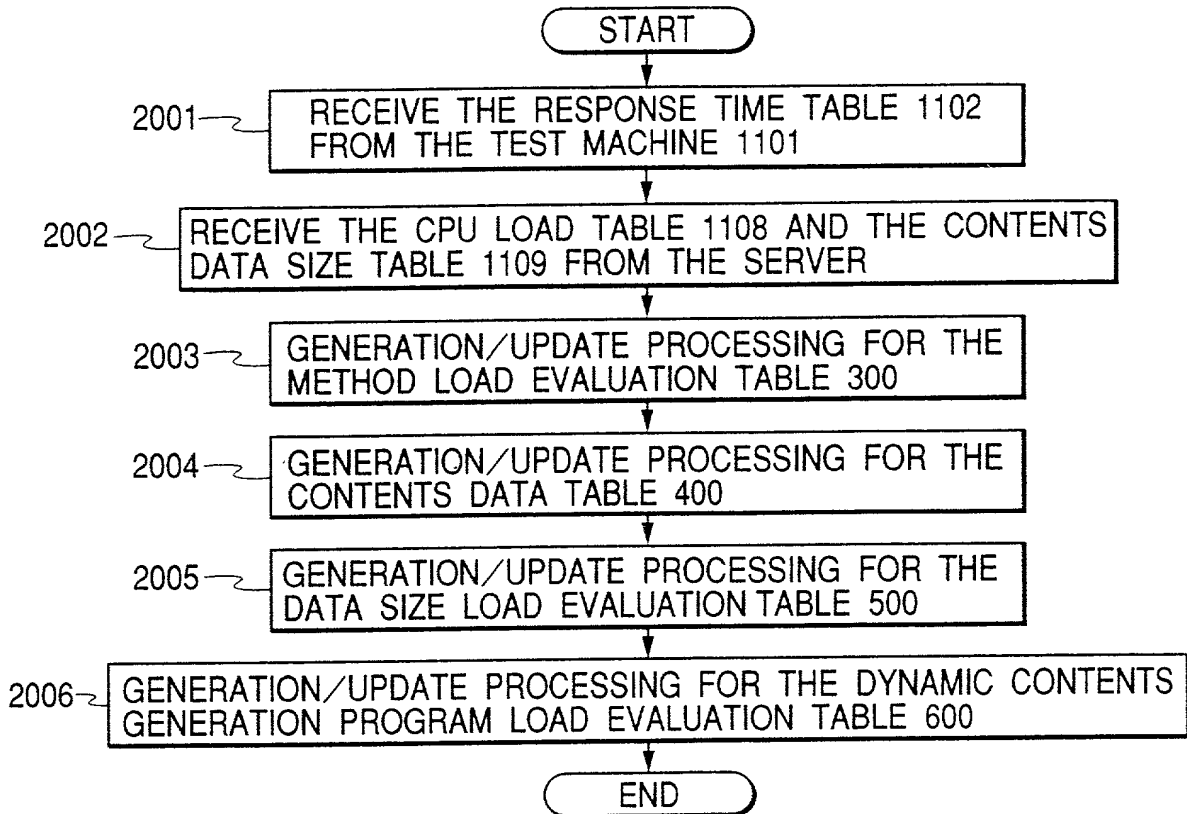
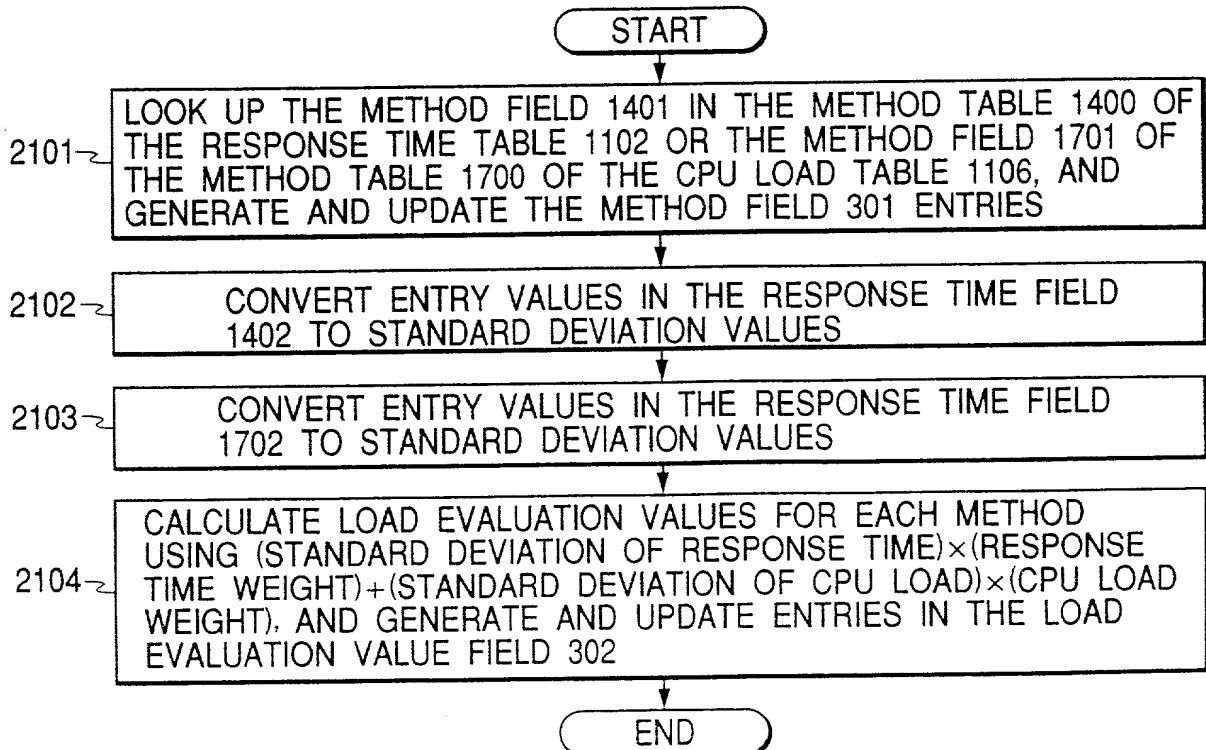
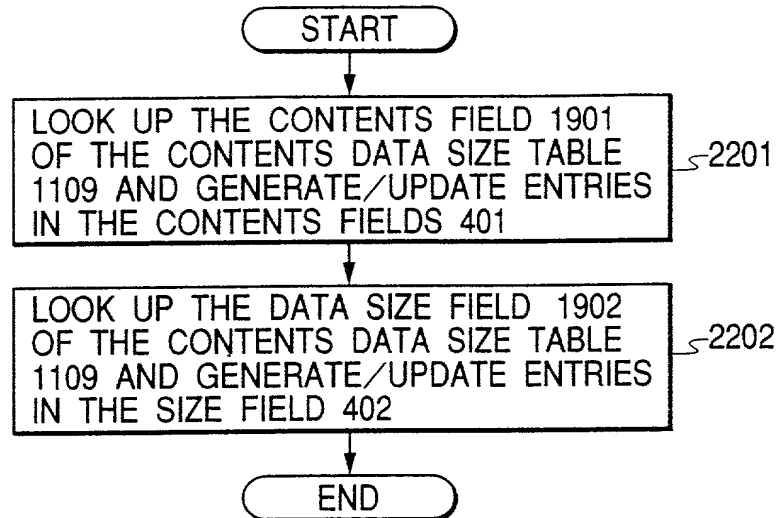
FIG. 20(LOAD EVALUATION VALUE
GENERATION PROCESSING) 1105**FIG. 21** (GENERATION/UPDATE PROCESSING FOR THE
METHOD LOAD EVALUATION TABLE 300)

FIG. 22

(CONTENTS DATA TABLE 400 GENERATION
/UPDATE PROCESSING 2004)

**FIG. 23**

(DATA SIZE LOAD EVALUATION TABLE 500)
(GENERATION/UPDATE PROCESSING 2005)

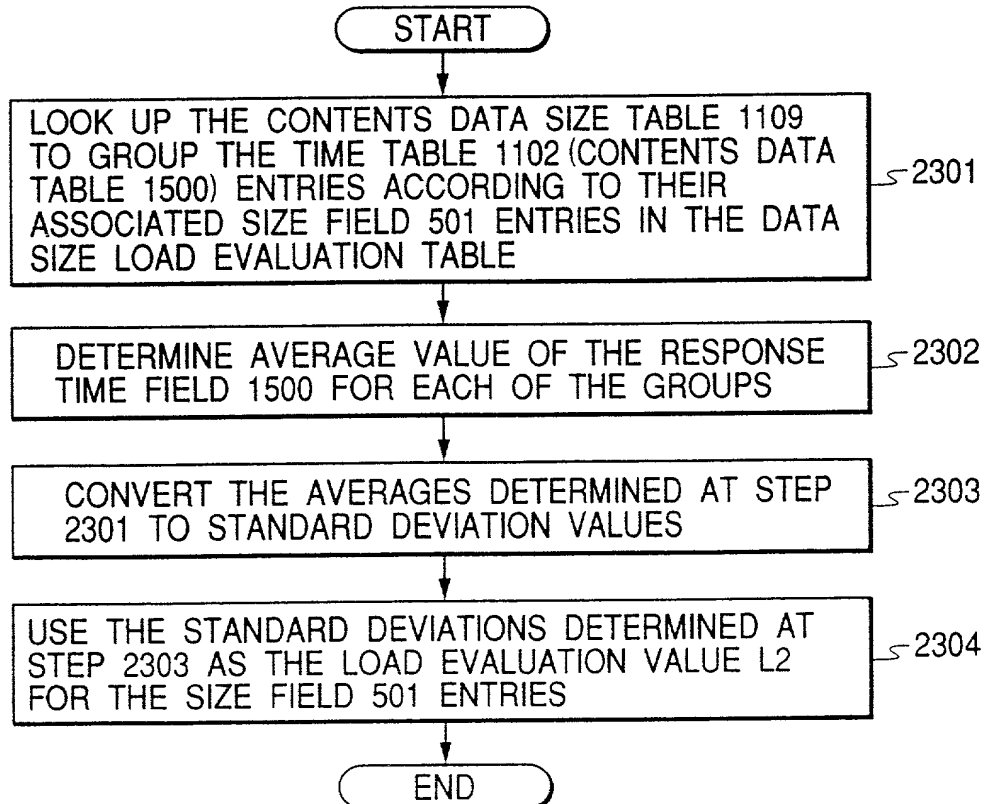


FIG. 24

(DYNAMIC CONTENTS GENERATION PROGRAM LOAD EVALUATION)
 (TABLE 600 GENERATION/UPDATE PROCESSING 2006)

